

## **MADERA COUNTY**

### **FIRE MASTER MECHANIC**

#### **DEFINITION**

Under direction, to perform a variety of skilled inspection, diagnosis, maintenance, servicing, and repair work on emergency response apparatus; and to do related work as required.

#### **SUPERVISION EXERCISED**

Exercises technical and functional supervision over assigned staff.

#### **EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES**

Performs a variety of skilled inspection, diagnosis, maintenance, servicing, and repair work on emergency response apparatus including fire apparatus, pumping apparatus, areal apparatus, and rescue apparatus; determines the extent of necessary repairs; overhauls, repairs, and adjusts transmissions, differentials, clutches, and engines; tunes-up engines; replaces ignition parts, and cleans and adjusts carburetors and fuel injection systems; replaces or repairs faulty parts including wheel bearings, oil seals, shock absorbers, exhaust systems, steering mechanisms, and other parts and equipment; repairs and replaces components including generators, distributors, relays, lights, and switches; performs front-end alignments and repairs; repairs and adjusts generators, water pumps, and air compressors; performs welding work to adapt and fabricate parts and equipment; works on hydraulic lines and systems; performs specialized repairs on air brakes, diesel engines, and drive mechanisms; carries out preventive maintenance programs; makes field and emergency repairs as necessary; maintains records on time and materials used; road tests repaired equipment; installs emergency warning equipment and radios; replaces flat tires; assists with cleaning the shop and work areas; steam cleans equipment and parts; supervises assigned staff in performing preventative maintenance and repairs on department equipment.

#### **OTHER JOB RELATED DUTIES**

Performs related duties and responsibilities as assigned.

#### **JOB RELATED AND ESSENTIAL QUALIFICATIONS**

##### **Knowledge of:**

Methods, tools, materials, and equipment used in the maintenance and repair of emergency response apparatus including fire apparatus, pumping apparatus, areal apparatus, and rescue apparatus.

Pertinent Federal, State, and local laws, codes, and regulations and their effect on fire apparatus.

Cost estimate review, vendor bid process preparation and review, and vendor warranties.

**Knowledge of:**

Principles and methods of gas and electrical welding.  
Operation and care of internal combustion and diesel engines and components.  
Principles and methods of preventative maintenance.  
Safe work practices.

**Skill to:**

Operate a variety of tools and machinery used in the repair and fabrication of fire apparatus and automotive equipment.  
Operate all fire apparatus for performance of inspections and testing.  
Operate a variety of hand and power tools in heavy equipment inspection, testing, and repair work.  
Operate a motor vehicle safely.

**Ability to:**

Inspect, diagnose, and repair mechanical problems and determine corrective procedures.  
Diagnose mechanical problems and determine corrective procedures.  
Estimate time and materials needed for repair work.  
Communicate clearly and concisely, both orally and in writing.  
Establish, maintain, and foster positive and harmonious working relationships with those contacted in the course of work.

**Experience and Training Guidelines:**

*Any combination equivalent to experience and training that would provide the required knowledge, skills, and abilities would be qualifying. A typical way to obtain the knowledge, skills, and abilities would be:*

**Experience:**

One year of responsible work experience performing skilled maintenance and repair work on heavy equipment.

**Training:**

Equivalent to the completion of the twelfth grade supplemented by specialized training in heavy equipment maintenance and repair.

**License or Certificate:**

Possession of, or ability to obtain, an appropriate, valid driver's license.

**Special Requirements:**

*Essential duties require the following physical skills and work environment:*

Ability to sit, stand, walk, kneel, crouch, stoop, squat, crawl, twist, climb, and lift 25 lbs.; exposure to cold, heat, noise, outdoors, vibration, confining work space, chemicals, explosive materials, mechanical hazards, and electrical hazards; ability to travel to different sites and locations.

**Effective Date:** May, 1995